

# Thermowells

## Solid Machined, Weld-in Type

Thermometers

Form BS per DIN 16 179

### Application

The thermowells form BS are welded into the process. They are suitable for high process loads, that might occur as a result of flow, temperature and process pressure influences or vibrations.

### Standard features

#### Thermowell material

Stainless steel 1.4571  
Steel 1.0460

#### Thermowell outer diameter

Ø 30 mm

#### Instrument connection

Female thread G ½

#### Bore size <sup>1)</sup>

Ø 8.2 mm, Ø 10.2 mm

#### Insertion length <sup>1)</sup> I<sub>2</sub>

73, 133, 173 or 223 mm

#### Total length

Insertion length + 39 mm

#### Maximum process temperature <sup>2)</sup>

300 °C with thermowell material steel 1.0460  
400 °C with thermowell material stainless steel 1.4571

#### Maximum process pressure (static) <sup>2)</sup>

150 bar with thermowell material stainless steel 1.4571  
160 bar with thermowell material steel 1.0460

### Optional extras

Quality certificates

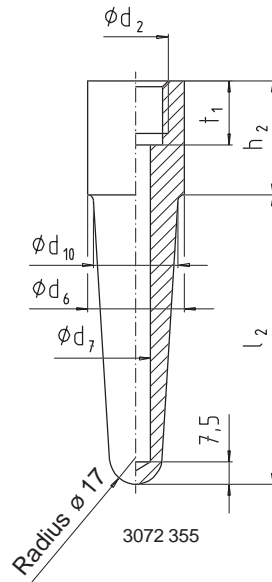


1) Model classification/possible combinations of these features see overleaf

2) Ratings depends on below parameters:  
- Process medium  
- Process pressure and temperature  
- Flow rate  
- Design of thermowell (dimensions, material)

## Dimensions

**OBSOLETE**



### Legend:

- $h_2$  Connection length
- $l_2$  Insertion length
- $t_1$  Bore depth for female thread
- $\varnothing d_2$  Instrument connection
- $\varnothing d_6$  Thermowell outer diameter
- $\varnothing d_7$  Bore size
- $\varnothing d_{10}$  Root diameter

Model	Material	Dimensions in mm						Weight in kg			
		$h_2$	$t_1$	$\varnothing d_2$	$\varnothing d_6$	$\varnothing d_7$	$\varnothing d_{10}$	$l_2 = 73$	$l_2 = 133$	$l_2 = 173$	$l_2 = 223$
9170	steel 1.0460	39	19	G ½	30	8.2	25	0.320	0.460	0.560	0.670
9171						10.2		0.300	0.430	–	–
9280	stainless steel 1.4571					8.2		0.320	0.470	0.570	0.690
9281						10.2		0.310	0.440	–	–

## Suitable stem lengths of mechanical thermometers

### Dial thermometers

Design of connection	Stem length $l_1$
S/4/5	$l_1 = l_2 + 27 \text{ mm}$
2	$l_1 = l_2 + 7 \text{ mm}$

### Machine glass thermometers

Design of connection	Stem length $l_1$
E	$l_1 = l_2 + 27 \text{ mm}$

## Ordering information

State: Model / Material Instrument connection / Bore size / Insertion length  $l_2$  / Optional extras required

Specifications and dimensions given in this leaflet are correct at the time of printing.  
Modifications may take place and materials specified may be replaced by others without prior notice.



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